

CLAIMS

1. A method for producing pharmaceutical forms or parts of pharmaceutical forms or food supplements or parts thereof,
- 5 by coating substrates with a mixture of two film-forming coating agents which may comprise further pharmaceutically customary additives, especially plasticizers and/or an active pharmaceutical ingredient,
- 10 where the first film-forming coating agent is a (meth)acrylate copolymer of 30 to 80% by weight free-radical polymerized C₁ to C₄ alkyl esters of acrylic or methacrylic acid and 70 to 20% by weight (meth)acrylate monomers having a tertiary amino group in the alkyl radical,
- 15 and the second film-forming coating agent is a polymer having anionic groups,
- 20 with the proviso that the film-forming coating agents comprise, based on the dry matter of the mixture, no or not more than 20% by weight of a plasticizer and no or not more than 5% by weight of a nonionic emulsifier,
- 25 characterized in that
- 30 the film-forming coating agents are initially separate from one another in the form of liquid, sprayable solutions or dispersions, and
- 35 are simultaneously sprayed by spray application using one or more spray devices which, singly or together, atomize liquids separately, and whose spray beams overlap,

in such a way that the incompatible individual portions are mixed in the spraying process, the mixture impinges on the substrate and forms thereon, after evaporation of the water, a film coating, resulting in the pharmaceutical form food supplement or parts thereof.

2. The method as claimed in claim 1, characterized in that the substrates are active ingredient crystals, active ingredient-containing cores, cores coated with an active ingredient-containing binder, tablets, granules, pellets or capsules.

3. The method as claimed in claim 1 or 2, characterized in that the first film-forming coating agent is a copolymer of 25% by weight methyl methacrylate, 25% by weight butyl methacrylate and 50% by weight dimethylaminoethyl methacrylate.

4. The method as claimed in one or more of claims 1 to 3, characterized in that the second film-forming coating agent is a polymer having anionic groups which is a cellulose derivative, a polyvinyl acetate derivative or a (meth)acrylate copolymer.

5. The method as claimed in one or more of claims 1 to 4, characterized in that the film-forming coating agents are present in a mixing ratio of from 9:1 to 1:9 based on the total polymer content of the film coating.

6. The method as claimed in claim 1 or 5, characterized in that two or more two-fluid nozzles or one or more three-fluid nozzles are employed as spray device.

7. The method as claimed in one or more of claims 1 to 6, characterized in that the spray application takes place in a drum coater, a coating pan, a fluidized bed apparatus or a spray sifter.
- 5 8. The method as claimed in claim 7, characterized in that the spray application takes place by means of spray devices as fixed installation.
- 10 9. A pharmaceutical form, parts of pharmaceutical forms, food supplements or parts thereof which can be produced by a method as claimed in one or more of claims 1 to 8.
- 15 10. A pharmaceutical form or parts of pharmaceutical forms as claimed in claim 9, characterized in that an active ingredient from the class of analgesics, antiallergics, antiarrhythmics, antibiotics, chemotherapeutics, antidiabetics, antidotes, 20 antiepileptics, antihypertensives, anti-hypotensives, anticoagulants, antimycotics, antiinflammatory agents, beta-receptor blockers, calcium antagonists and ACE inhibitors, bronchospasmolytics/antiasthmatics, cholinergics, 25 corticoids (for internal use), diuretics, enzyme inhibitors, enzyme preparations and transport proteins, expectorants, geriatrics, gout remedies, influenza remedies, hormones and their inhibitors, hypnotics/sedatives, cardiac drugs, lipid-lowering agents, parathyroid hormones/calcium metabolism 30 regulators, psychoactive drugs, sex hormones and their inhibitors, spasmolytics, sympatholytics, sympathomimetics, vitamins, wound-treatment agents, cytostatics, nucleic acids, proteins or peptides, is present.
- 35 11. A pharmaceutical form or parts of pharmaceutical forms as claimed in claim 9 or 10, characterized in that the pharmaceutical forms are

multiparticulate.

12. A drum coater, coating pan, fluidized bed
apparatus or spray sifter suitable for carrying
5 out a method as claimed in one or more of claims 1
to 8, comprising one or more three-fluid nozzles
as spray device.
13. The use of one or more spray devices for carrying
10 out a method as claimed in one or more of claims 1
to 8.